3
US Department
of Transportation
Federal Aviation

## MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance)

OMB No. 2120-0020 Exp; 01/31/2023	Electronic Tracking Number	
F	or FAA Use Only	

Federal Aviation Administration		9						
instructions	and disposit	or type all entric tion of this form. C. §46301(a))	es. See Title 14 CF This report is require	R §43.9, Part 43 ed by law (49 U.S	Appendix B, and S.C. §44701). Fai	d AC 43.9-1 ilure to repo	(or subs	equent revision thereof) for ult in a civil penalty for each
	Nationality	and Registration			Serial No.	32012	179	8/1
1. Aircraft	Make	N7576	7 (		INDUE		Se	eries
	C	essna		_	RIE	52		
2. Owner	Name (As M R C	shown on regist	ration certificate) AGE/11 ENT L	LC		1000 WH	Stration ce	PINE CIRCLE State OK
	<u> </u>			3. For FAA Use	Only			
4. Ty	pe			5. Unit Identifica	ation	<u> </u>	<u> </u>	
Repair	Alteration	Unit	Ma	ake		Model		Serial No.
	×	AIRFRAME	Cessna		(As described	d in Item 1 a	bove)	
		POWERPLANT						
		PROPELLER						
		APPLIANCE	Type Manufacturer					,
				6. Conformity Sta				
A. Agency's				B. Kind of Agen			Man	ufacturer
Address 21	141NE 851 N	MCCOLGI	AUE		tificated Mechanic		C. Certifi	
City A1	ULHAL		State DK		Repair Station  Maintenance Organ	ization	33	94208
D. I certif	y that the rep	pair and/or altera	tion made to the unit( h the requirements of to the best of my kno	f Part 43 of the U.:	m 5 above and de S. Federal Aviatio	scribed on t n Regulation	he reverse	e or attachments hereto
Extended ra per 14 CFR App. B		Sign	nature/Date of Author	111	3/18/2023			
Pursuant Administra	to the auth	ority given per ederal Aviation A				was inspect	ted in the	e manner prescribed by the
	AA Fit. Stan	dards Ma	nufacturer	Maintenance (	Organization		ons Approve	ed by Canadian ransport
BY	AA Designe	e Re	pair Station	Inspection Aut	thorization	Other (Spe	ecify)	
Certificate o		Sig	nature/Date of Author	rized Individual				·
Designation	NO. 39420	8 4	li 1-9119	Toler 03	118/2023	?		

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

Description of Work Accomp (If more space is required, atta	olished ach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)
	N7576T.  Nationality and Registration Mark  Date
	rtex generators on the wings and tail surfaces in accordance with the SA00834SE and STC#SA00834SE.
on VG Operating cockpit. This place airworthy." To make the VGs should determine if any a to be replaced by	ontinued Airworthiness of Micro Vortex Generator Installations are stated Placard #MA8001 which must be installed in an easily seen location in the card states: "if more than 5 VGs are damaged or missing, the aircraft is not take it airworthy, the missing VGs in excess of five need to be replaced. It be examined prior to each flight, during the pre-flight inspection, to are missing or damaged. Missing or damaged VGs in excess of five need the installation of a new (replacement) part. Installation is accomplished and Adhesive #330. No other maintenance or inspections are necessary.
	Negligible weight change
	END
	Additional Sheets Are Attached

#### Department of Transportation—Federal Aviation Administration

# Supplemental Type Certificate

Number SA00834SE

This certificate, issued to

Micro AeroDynamics, Inc. 4000 Airport Road, Suite D Anacortes, WA 98221

certifies that the change in the type design for the following product with the limitations and conditions therefor as specified hereon meets the airworthiness requirements of Part \* of the \* Regulations.

Original Product - Type Certificate Number:

\*See attached FAA Approved Model List (AML)

Make:

No. SA00834SE for a list of approved airplane models and applicable airworthiness regulations.

Description of the Type Design Change: Installation of vortex generators on the wings and tail surfaces in accordance with the provisions of AML SA00834SE.

NOTE: If more than five vortex generators are damaged or missing, the aircraft is not airworthy.

Sacrations and Conditions: Approval of this change in type design applies to the aircraft listed on AML SA00834SE only. This approval should not be extended to other aircraft on which other previously approved modifications are incorporated unless it is determined that the relationship between this change and any other previously approved modifications, including changes in type design, will introduce no adverse effect upon the airworthiness of that aircraft. NOTE: Compatibility of this modification with R/STOL Systems Supplemental Type Certificate SA1382WE has been demonstrated by flight testing. A copy of this Certificate and AML must be maintained as part of the permanent records for the modified aircraft.

If the holder agrees to permit another person to use this certificate to alter the product, the holder shall give the other person written evidence of that permission.

This certificate and the supporting data which is the basis for approval shall remain in effect until surrendered, suspended, revoked, or a termination date is otherwise established by the Administrator of the Federal Aviation Administration.

Date of application:

June 8, 2000

Date reissued:

Date of issuance:

August 11, 2000

Date amended:



Acting Manager, Seattle Aircraft

Certification Office

(Title)

US Department
of Transportation
Federal Aviation
8-4-4-1-1-441

# MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance)

Form Approved OMB No. 2120-0020 2/23/2011	Electronic Tracking Number
F	or FAA Use Only

Fee	ransportation leral Aviation ministration	on	(Air	fram	e, P	owerplant, P	rop	elle	er, or App	liance)				
in	structions	TONS: Print and dispos on. (49 U.S.	ition c	of this f	form.	es. See Title 14 This report is re	CFF	R §4	13.9, Part 43 y law (49 U.\$	Appendix B, ar S.C. §44701). Fa	nd AG	43.9- to repo	1 (or su ort can re	bsequent revision thereof) for each
		Nationalit		Regist	tration	n Mark				Serial No. R182012	29			
1. A	ircraft	Make Cessn	na	-						Model R182				Series
		Name (As	show	vn on n	egistr	ration certificate)				Address (As s				certificate)
2. O	wner	N7570	GT LI	LÇ							1 Ro	yalton		State Ohio
								3. F	or FAA Use					
										Esse				
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R	4. Ty <sub>l</sub> epair	Alteration		Unit			Mak		mit identifica	illon	Mod	del		Serial No.
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							6.	_	nformity Sta					
A. A Name	<del></del>	lame and A y W. Turne		<u></u>				B. F	Kind of Agenc	y ated Mechanic			Ma	nufacturer
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City	Shelb 44875		intry L	JSA		State Ohio	-	7		Repair Station	izatio		AP33	371638IA
Zip D.	I certify	that the rependent	accor	nd/or al	with	ion made to the the requirements the best of my	s of F	Part .	lentified in ite 43 of the U.S	m 5 above and	des	cribed o	on the re	verse or attachments hereto nat the information
	nded ran 14 CFR F . B				Sign	ature/Date of Au	thori	zed	Individual	AP 37,	7/63	923		9/3/21
					- /	7.	App		al for Return					
Pu Ad	irsuant to Iministrat	o the author or of the Fed	ority g deral A	iven p Aviation	perso n Adn	ns specified be ninistration and i	elow, s	the	unit identif	Approved	was	inspect Rejecte	ed in the	ne manner prescribed by the
BY		A Fit. Stand spector	lards	Ц	Manı	ufacturer		Ма	intenance Or	ganization	Oir	Depar	tment of 1	ved by Canadian Transport
:		A Designee		$\perp \perp$		air Station	/		spection Auth	orization	Otne	er (Spe	спу)	
	ficate or 337163	Designation 38IA	No.		Signa	Autore/Date of Autorial	thoriz	zed I	Individual	Δ031	7/1	フタナン	a - ·	9/2/21

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

			N757GT		9/3/21	
			Nationality and R	Registration Mark	Date	ł
Removed the sun visors and i	installed the ROSI	EN sun visc	ors:			
ON: R1020000						
ON: NSN						
alled the visors under STC Sa	A01436SE.					
alled referencing the installati		cument # 9	9051-0102-004.			
nstalled the wing mirror by W	/ILCO.					
ON: W210106-7 ON: NSN						
J. 11017						
alled the wing mirror under S						
alled referencing the installati	ion drawing W182	107.				
	-END					
€						

#### United States of America

#### Department of Transportation—Federal Aviation Administration

# Supplemental Type Certificate

Number SA01436SE

This certificate, issued to

Rosen Sunvisor Systems, LLC 86365 College View Road Eugene, OR 97405

certifies that the change in the type design for the following product with the limitations and conditions therefor as specified hereon meets the airworthiness requirements of Part \* of the \* Regulations.

Original Product — Type Certificate Number: Make:

\* See attached Approved Model List

No. SA01436SE for list of approved airplane models

and the applicable airworthiness regulations

Description of the Type Design Change: The manufacture of a cockpit sunvisor retrofit kit in accordance with Rosen Sunvisor Systems Master Drawing List No. 1020000-DL, Revision A, dated May 4, 2004, or later Federal Aviation Administration (FAA) approved revision. The sunvisor system must be installed and maintained in accordance with Rosen Sunvisor Systems Installation and Continued Airworthiness Instructions Document 9050-0102-004, Revision A, dated May 20, 2004, or later FAA approved revision.

Limitations and Conditions. This STC must be concurrently installed with the applicable STC listed on the AML. Approval of this change in type design applies to the aircraft models listed above only. This approval should not be extended to other aircraft of this model on which other previously approved modifications are incorporated unless it is determined that the relationship between this change and any of those other previously approved modifications, including changes in type design, will introduce no adverse effects upon the airworthiness of that aircraft. A copy of this Certificate must be maintained as part of the permanent record of the modified aircraft.

If the holder agrees to permit another person to use this certificate to alter the product, the holder shall give the other person written evidence of that permission.

This certificate and the supporting data which is the basis for approval shall remain in effect until surrendered, suspended, revoked, or a termination date is otherwise established by the Administrator of the Federal Aviation Administration.

Date of application:

May 20, 2004

Date reissued.

Late of issuance:

August 2, 2004

Date amended:

By direction of the Administrate



(Signature) Manager, Seattle Aircraft

Certification Office

Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both.

#### United States of America

#### Department of Transportation Federal Aviation Administration

# Supplemental Type Certificate

#### Number SA00871SE

This certificate, issued to

Rosen Sunvisor Systems, LLC 86365 College View Road Eugene, OR 97405

certifies that the change in the type design for the following product with the limitations and conditions therefor as specified hereon meets the airworthiness requirements of Part \* of the \* Regulations.

Original Product — Type Certificate Number:

\* See attached FAA Approved Model List (AML)

No. SA00871SE for a list of approved aircraft models and applicable airworthiness regulations.

Description of the Type Design Change: Cockpit sunvisor installation in accordance with Rosen Products LLC Drawing Lists per the attached Federal Aviation Administration (FAA) Approved Model List (AML) No. SA00871SE, dated April 8, 2005, or later FAA approved revision.

Limitations and Conditions. The approval of this change in type design applies to the aircraft models listed on FAA AML No. SA00871SE. This approval should not be extended to other aircraft of this model on which other previously approved modifications are incorporated unless it is determined that the interrelationships between this change and any other previously approved modifications will introduce no adverse effect upon the airworthiness of that aircraft. A copy of this certificate and FAA AML SA00871SE shall be maintained as part of the permanent records of the modified aircraft.

If the holder agrees to permit another person to use this certificate to alter the product, the holder shall give the other person written evidence of that permission.

This certificate and the supporting data which is the basis for approval shall remain in effect until surrendered, suspended, revoked, or a termination date is otherwise established by the Administrator of the Federal Aviation Administration.

Date of application: May 9, 2000

Date reissued:

March 24, 2003, April 8, 2005

Dale of issuance:

January 25, 2001

Date amended:

March 24, 2003; April 8, 2005

By direction of the Administrator

Acting Manager, Seattle Aircraft Certification Office

Extended (Signature)

Any alteration of this cortificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both.

This certificate may be transferred in accordance with FAR 21.47.



# MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance)

Form Approved OMB No. 2120-0020 2/28/2011	Electronic Tracking Number
	or FAA Use Only

Federal Aviation Administration	1										
instructions	and disposi ion. (49 U.S.)	ition of this f C. §46301(a	form. This report is req	CFF uire	R §43.9, Part 4 ed by law (49 U	I.S.C. §44	701). Fai	i AC lure to	43.9-1 repor	(or subs	equent revision thereof) for ult in a civil penalty for each
	Nationality N7570	and Regist	ration Mark			Serial R1	No. 820122	9			
1. Aircraft	Make					Mode				s	eries
	Cessn	а				R1	-		- 1	1	11
	Name (As	shown on r	egistration certificate)				ss <i>(As sl</i> s 10692			istration c Drive	ertificate)
2. Owner						City	North			DIIVO	State Ohio
	N75/0	GT LLC				Zip	44133	3		Countr	y USA
					3, For FAA Us	e Only					
						P E			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	7.	
4. Ty	ре				5. Unit Identif	ication	_			V/i	
Repair	Alteration	Unit	-1	Mal	ke	111		Mode	el		Serial No.
	<b>V</b>	AIRFRAMI				(As	describe	d in Iti	em 1 a	bove)	
		POWERPI	ANT	1						11 11	
		PROPELL									
		APPLIANC	Type  Manufacturer			_					
				6.	. Conformity S						
	Name and A		nance Inc		B. Kind of Ag	ency ificated Med	hanic			Man	ufacturer
Address 2000	ern Avionic: Harrington	Memorial	Road, Hangar #532	_ !	Foreign C	ertificated N	lechanic			C. Certifi	cate No.
	sfield	ountry USA	State Ohio	_		d Repair St d Maintena		ization	1	CRS#	#7MVR170C
D. I certif	y that the re been made in hed herein is	pair and/or a	alteration made to the e with the requirements rrect to the best of my l Signature/Date of Au	s of knov	wledge.	item 5 at J.S. Feder	oove and al Aviatio	desc an Reg	ribed o	on the rev	erse or attachments hereto at the information
per 14 CFR App. B	Part 43										
					proval for Ret			wae i	nspec	ted in the	e manner prescribed by the
Pursuant Administra	to the auth	ority given	persons specified be on Administration and i	s S	, the unit ide	ntified in Appl	roved	was I	Rejecti	#U	e manner prescribed by the
	AA Fit. Stan	dards	Manufacturer		Maintenance	Organizat	tion	Othe		rtment of T	ed by Canadian ransport
	AA Designe	e 🗸	Repair Station		Inspection A	uthorizatio	n 		(-)		
Certificate o	r Designation	n No.	Signature/Date of Au	thor	rized Individual						
CRS# 71	MVR170C										

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

	N757GT	
	Nationality and Registration Mark	Date
1) Removed the GTX335 transponder and install P/N OFF: 011-03300-40 S/N OFF: 3EE423091 P/N ON: 011-03302-41 S/N ON: 3EG441050	led the GTX 345:	Jako
Installed the GTX 345 as a slide in replacement re-Installation Manual - STC, Part 23 GTX 3XX, P/N-Master Drawing List, Part 23 GTX 33X and GTX -Equipment List, Part 23 GTX 33X and GTX 3X5 A-AFMS Garmin GTX 33X and GTX 3X5 Transpon-Maintenance Manual w/ICA, Part 23 STC GTX 33-STC SA01714WI with AML - Part 23 (ADS-B), ST	l: 190-00734-10, REV 15, Dated June 1, 202 3X5 ADS-B, P/N: 005-00734-04, REV 18, Da ADS-B, P/N: 005-00734-05, REV 20, Dated J ders with ADS-B, P/N: 190-00734-15, REV 5 XX, P/N: 190-00734-11, REV 8, Dated June CC SA01714WI, REV 6, Dated August 1, 201	ated July 1, 2021. July 1, 2021. , Dated June 1, 202 1, 2021. 9.
The aircraft has already been changed with this Sireplacement and does not talk to any panel mount	ed avionics.	345 is a slide in
This installation meets the performance requireme	nts of 91 227 for ADS B and asset is	
END		
	= 3	

# GARMIN.

# **DELIVERY PACK LIST**



MODERN AVIONICS & MAINTENANCE 2000 HARRINGTON MEMORIAL RD STE 538 Mansfield OH 44903 United States Bill To MODERN AVIONICS & MAINTENANCE INC 2000 HARRINGTON MEMORIAL RD Mansfield OH 44903 United States Tel: 216-577-8845 HANGAR 532 Ship To Garmin International Inc. 1100 E 151st Street United States Tel: (913) 397-8200 Olathe KS 66062 Seller

0 No. of Pallets: Freight by Header 5,44 LB Freight Terms: Weight: No. Packages: FEDEXG-Parcel-GROUND PKG COMMERCIAL **FEDEX GROUND** EX≪ Incoterms: Carrier: Ship Method: 27-AUG-2021 27-AUG-202 Standard GI Order Type: Order Date:

27108346

Customer No:

				100000000000000000000000000000000000000		
Garmin Order No.:		140860828	Customer PO#:	2/108346-2/0821163/03		
Line No.	Line No. Product Code	Product Description			Oty Shipped	Net Welght
1,1	010-01216-46	GTX345 GPS Standard Kit,nAB			1 EA	4.81 LB
Serial Number(s):	nber(s): 3EG441050			LPI	PN/Container 100575220	5220
2.1	013-00235-00	WAAS Antenna, GA35, White			1 EA	0,63 LB
Serial Nun	\umber(s): 206969			(d)	.PN/Container: 100575220	5220

# WARRANTY INFORMATION

Warranty Information: www.garmin.com/support/warranty

SALES TAX
Garmin International, Inc. is required by state law to collect sales/use tax in AL, AZ, CA, CT, FL, GA, HI, IL, IN, KS, LA, MA, ME, MI, MO, MN, MS, NC, NE, NM, NV, NY, OH, OK, PA, RI, TX, UT, VA, VT, WA, WI and WY. Tax is also collected on downloadable content in these states with the exception of Florida. Residents of any state not listed are responsible for reporting any applicable taxes on their purchases from Garmin International, Inc. to their states tax authorities. Please consult a tax professional in your state for guidance. Garmin does not provide tax or legal advice.

CERTIFICATE OF MATERIAL AND PROCESS CONFORMANCE.
It is hereby certitled that the anticles described above are in conformance with GARMIN specifications and drawing for both the material and process the exception of any parts labeled experimental. Test reports and/or Data are on file as appropriate.

08/27/2021

Date



Authorized Signature:

Designated Operations Representative





### MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance)

Form Approved OMB No. 2120-0020 2/28/2011	Electronic Tracking Number
	Ear EAA Hen Only

INSTRUCTIONS: Print or type all entries. See Title 14 CFR §43.9, Part 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form. This report is required by law (49 U.S.C. §44701). Failure to report can result in a civil penalty for each such violation. (49 U.S.C. §46301(a))

vio	lation. (	(49 U.S.C. §4	6301(a))														
		Nationality N757G		jistratio	n Mark						Serial N R182		9	<u>-</u> -			
1. Ai	rcraft	Make	_								Model					Series	
		Cessna									R182						
				n regis	tration certificate)						Address:					on certificate)	
2. Ov	wner	George Constru	Hicks action Ir	ıc								Tallad				State Ala	bama
											Zip	<u>35160</u>	<u>-233</u>	8	Co	untry <u>USA</u>	
	- 1						3. F	or F	AA Us	e C	nly						
	4. Ty	/pe				<u> </u>	5. L	Unit I	dentifi	icat	tion						
R	epair	Alteration	Uı	nit		Mak	e			T			Mod	el		Serial N	No.
		•	AIRFRA	ME					-	T	(As described in Item 1 al				above)		
			POWER	PLANT											8		
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City Zip	Albe 3595	rtville 50	Country US	A	State Alabama	- [	~				epair Statio		ization	1	FAA	CRS# 9RSR1940	;
D.	have b	been made in	accordar	nce with		s of F	Part	43 c								se or attachments here that the information	eto
	4 CFR	nge fuel Part 43		Sign	ature/Date of Auti	horiz	ed I	Indiv	idual							5	-09-19
					7.	App	rov	/al fo	r Retu	ırn i	to Servic	ce			<del>-</del>	<u>-</u>	
					specified below, t	he u				iter		inspect		the ma		rescribed by the	
	F	AA Flt. Stand		1	nufacturer	-	Ma	ainte	nance	_	anization			Perso	ns Appr	oved by Canadian f Transport	
ву		AA Designee	- 0	Rer	pair Station	+	ไกร	spec	tion Au	ıtho	rization		Othe	r (Spe		· · · · · · · · · · · · · · · · · · ·	
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and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be appropriate with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

6. Description of Work Accomplished

If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

N757GT

May 09, 2019

Nationality and Registration Mark

Date

Registration #: N757GT

Make/Model/SN: Cessna / R182 / R18201229

Tach: 1475.9

This FAA Form 337 documents the installation and enablement of a Garmin GTX 335 Mode S Transponder / Automatic Dependent Surveillance Broadcast Out (ADS-B Out) System, as a minor alteration. The system complies with the requirements of 14 CFR 91.225 and 91.227.

- A. A King KT 76A transponder, P/N: 066-1062-00, an ACK A30 Encoder, and a monopole transponder antenna were removed.
- B. Installed and enabled a Garmin GTX 335 Mode S Transponder / ADS-B System, P/N 011-03300-40, with ADS-B Out functionality per Garmin AML STC Number SA01714WI.
- C. The ADS-B Out equipment, Garmin GTX 335 Mode S Transponder / ADS-B System, P/N 011-03300-40, is compliant with FAA TSO's-C112d and C166b.
- D. The GNSS position sensor is compliant with FAA TSO C146a, Class 3.
- E. The system electrical interface was installed in accordance with Garmin GTX 345 ADS-B Installation STC Number SA01714WI.
- F. Structural aspects of the installation were installed in accordance with Garmin GTX 345 ADS-B Installation STC Number SA01714WI.
- G. Test/Evaluation/Approval for Return to Service-A satisfactory ground test of the ADS-B Out system was completed using a TIC TR-220 Transponder/ADS-B Test Set. The ground test checked for proper configuration and the equipment performance requirements of 14 CFR 91.227. A post installation flight test was not required.
- H. This alteration was completed and documented by RainAir Avionics Services, FAA CRS # 9RSR194C, at RainAir Avionics Services in Albertville, AL under Work Order # 661A.
- I. Flight Manual Revision: A revision to the applicable airplane flight manual supplement has been inserted into the flight manual/Pilot's Operating Handbook containing the statement, "The installed ADS-B Out system has been shown to meet the equipment performance requirements of 14 CFR 91.227."
- J. The Instructions for Continued Airworthiness (ICA) for the ADS-B Out system are identified. The ICA has been provided to the aircraft owner/operator for incorporation into the aircraft maintenance program.
- K: Weight and balance change was calculated.
- L. The equipment list has been revised.
- M. The electrical load analysis is satisfactory.
- N. The appropriate logbook entries have been completed.
- O. The Garmin GTX 335 Mode S Transponder/ADS-B system is designed not to require regular general maintenance. The unit does not require periodic maintenance. Maintenance is "on condition" only. Service or repair is required only when a malfunction is detected.

 ,	 	 ~~~~~~

1 Additional	Sheets	Are	Attached

#### United States of America

#### Department of Transportation -- Federal Aviation Administration

# Supplemental Type Certificate

Number SA01714WI

This certificate issued to

Garmin International, Inc. 1200 East 151<sup>th</sup> Street Olathe, KS 66062

certifies that the change in the type design for the following product with the limitations and conditions therefore as specified hereon weets the aircearthiness requirements of Part 23° of the Federal Aviation Degulations.

Criginal Product Type Cortificate

Namber:

\* See attached Approved Model List (AML) No. SA01714WI dated May 1, 2013 or later FAA-

Music:

approved revision for list of approved aircraft models

Model

and applicable airworthiness regulations.

#### Description of Type Design Change

Installation of a Garmin transponders: (a) GTX 330/330D/33/33D with ADS-B Out functionality; (b) GTX 335/335R/345R with ADS-B Out and In functionality; or (c) GTX 335R/345R with ADS-B Out functionality in select airplanes installed with G950/G1000 systems.

#### Data Required:

- (1) Garmin Master Drawing List (MDL) 005-00734-04, Revision 1, dated May 1, 2013 or later FAA-approved revision.
- (2) Garmin Airplane Flight Manual Supplement or Supplemental Airplane Flight Manual (AFMS), 190-00734-15, Revision 1, dated May 1, 2013 or later FAA-approved revision.

#### Limitations and Conditions

- (1) Compatibility of this design change with previously approved modifications must be determined by the installer.
- (2) Aircraft installations involving the Garmin transponder GTX 33/33D/330/330D models require the previous installation of an approved ADS-B position source. Refer to the design data specified in the Master Drawing List (MDL) listed above for specific hardware and software requirements.
- (3) Aircraft installations involving the Garmin transponder GTX 335/335R/345/345R models without an optional internal GPS require the previous installation of an approved ADS-B position source. Refer to the design data specified in the Master Drawing List (MDL) listed above for specific hardware and software requirements.

This certificate and the supporting data which is the basis for approval shall remain in effect until surrendored, suspended, received or a termination date is otherwise established by the Administrator of the Federal Resistion Administration.

Late of application. August 7, 2012

Late reissued

Interfissurance. May 1, 2013

Lute amended. April 29, 2014, March 8, 2016

By direction of the Artministrator

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Michael Warren
ODA STC Unit Administrator
ODA-240087-CE
Garmin International, Inc.

(Title)

Any alteration of this cartificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both-

TAA FORM 0110-2(10-68) PAGE 1 of 3 PAGES

This certificate may be transferred in accordance with FAR 21.47.

#### United States of America

Department of Transportation -- Federal Aviation Administration

# Supplemental Type Certificate

(Continuation Sheet)

Number SA01714WI

Late of issuunce: May 1, 2013

Late . Amended: April 29, 2014, Murch 8, 2016

#### Limitations and Conditions (continued):

- (4) Aircraft with G950 or G1000 display systems are limited to Garmin transponder GTX 335R/345R models; see Table II of the attached AML. Refer to the design data specified in the Master Drawing List (MDL) listed above for specific hardware and software requirements.
- (5) Aircraft modified by this STC must be operated in accordance with the Airplane Flight Manual Supplement or Supplemental Airplane Flight Manual (AFMS) identified above.
- (6) Aircraft modified by this STC must be maintained in accordance with the Instructions for Continued Airworthiness (ICA) listed in the Master Drawing List (MDL) identified above.
- If the holder agrees to permit another person to use this certificate to alter the product, the holder must give the other person written evidence of that permission.

#### \*Certification Basis

Based on 14 CFR §§ 21.115 and 21.101, and the FAA policy for significant changes in FAA Order 8110.48, the certification basis for this change is as follows:

- a. The certification basis for parts not changed or not affected by this change is shown on the uttached AML.
- b. The certification basis for parts changed or affected by this change is:

Section	<u>Amdt</u>	Section	Amdt	Section	Amula
23,301 a	23-48	23,773 a(2)	23-45	23.1357 a, b, c, d	Amdt 23-43
23.303	Original	23,777 a, b	23-62	23:1357 a, b, c, d	
23.305	23-45	23.853 a	23-62	23.1365 a, b, d, e	23-49
23,307 a	Original	23.863 а. ь	23-34	23.1367 a, b, c, d	23-49
23.337	23-48	23.1301 a, b, c	23-62	23.1431 a, b	Original
23.561 b(3), e	23-62	23.1306 a, b	23-61	23.1501 a, b	23-62
23.601	Original	23,1307	23-49	23,1525	23-21
23.603	23-23	23,1308 a, b, c	23-57	23.1529	23-45
23.605 a	23-23	23.1309 a(1)(2),b, c, d	23-62	23.1555 a, b, e(2)	23-26
23.607 a, b	23-48	23.1310	23-62	23.1581 a, b, c, f	23-62
23.611	23-48	23.1311 a(2)	23-62	23.1583 h, m	23-50
23.613 a, b	23-45	'23.1322 b. d. e	23-43		23-62
23.627	Original	23.1351 a	23-49	23.1585 j	23-62
23.771 a	23-14	23-1353 h	23-62	######	
***		END	~!		****



Garmin International, Inc.
1200 East 151st Street
Olathe, Kansas 65062
P: 913-397-8200 F: 913-397-8282

May 10, 2019

Subject: Permission to Use STC SA01714WI or SR02124SE for Installation of Garmin GTX 335 ADS-B Transponder; See Approved Model List (AML) for Approved Aircraft Models

Pursuant to 49 U.S.C. 4 21-40; Garmin Internat				and FAA Advisory Circular on owner/operator of
Cessna				R18201229 to use FAA
				associated with it, for the
				ount Garmin GTX 335 with
<b>GPS ADS-B Transponde</b>	r into the above re	eferenced aircraft. Ins	taller must either: ver	ify airframe eligibility per
				erence FAA Memorandum
				nstallation of ADS-B OUT
Systems'. Following the	aircraft modificati	ion, a copy of this per	mission letter should	be placed in the aircraft's
permanent records. Alt	eration or reprodu	ction of this letter is s	trictly prohibited.	

Eric Erick

Aircraft Certification Engineering Manager Garmin International, Inc.



1200 East 151st Street Olathe, KS 66062 P: 913-397-8200 F: 913-397-8282

July 11, 2018

Subject:

Authorization for STC Use

AML STC SA01714WI

Garmin authorized dealers are hereby granted permission to use Garmin AML STC SA01714WI data to modify aircraft.

**Emmett Griffith** 

Director of Engineering

Garmin International, Inc.

# US Department of Transportation

of Transportation Federal Aviation Administration

### MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance)

Form Approved OMB No. 2120-0020

For FAA Use Only

Office Identification

INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form. This report is required by law (49 U.S.C. 1421). Failure to report can result in civil penalty not to exceed \$1,000 for each such violation (Section 901 Federal Aviation Act of 1958).

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Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

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#### Repartment of Transportation—Federal Aviation Administration

# Supplemental Type Certificate

Number SA2162NM

This certificate, issued to

Precise Flight, Inc. 63120 Powell Butte Rd. Bend, OR 97701

certifies that the change in the type design for the following product with the limitations and conditions therefor as specified hereon meets the airworthiness requirements of Part \* of the \* Regulations.

Original Product — Type Certificate Number:

\*See attached FAA Approved Model List (AML)

Make: Model: No. SA2162NM for list of approved airplane models

and applicable airworthiness regulations

Description of the Type Design Change: Installation of Precise Flight, Inc. Stand-By Vacuum System (SVS) in accordance with the appropriate Precise Flight, Inc. Engineering Drawing listed on FAA Approved Model List No. SA2162NM, dated April 14, 2000, or later FAA approved revision.

NOTE: As a prerequisite to this change, the length must be modified in accordance with Precise Flight, Inc. STC No. SE1779NM or SE1780NM, dated December 28, 1982, or later FAA approved revision. Also, modified aircraft must be equipped with a vacuum indicator.

Limitations and Conditions: Approval of this change in type design applies to the above model aircraft only. This approval should not be extended to other aircraft of this model on which other previously approved modifications are incorporated unless it is determined by the installer that the relationship between this change and any of those other previously approved modifications, including changes in type design, will introduce no adverse effect upon the airworthiness of that aircraft. A copy of this certificate, AML No. SA2162NM and the appropriate FAA Approved Flight Manual Supplement (AFMS) listed on AML No. SA2162NM must be maintained as part of the permanent records for the modified aircraft.

If the holder agrees to permit another person to use this certificate to alter the product, the holder shall give the other person written evidence of that permission.

This certificate and the supporting data which is the basis for approval shall remain in effect until surrendered, suspended, revoked, or a termination date is otherwise established by the Administrator of the Federal Aviation Administration.

Date of application:
Date of issuance:

October 31, 1983

November 7, 1983

Date reissued:

Date amended:

December 16, 1983; December 7, 1984; July 25, 1990; April 14, 2000



(Signature)

Acting Manager, Seattle Aircraft Certification Office
(Title)

Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both.

# US Department | of Transportation

MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance)

Form Approved OMB No. 2120-0020

For FAA Use Only

Office Identification

INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form. This record is recorded by low (49.11 S.C. 1424). Follows

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#### United States of America

Bepartment of Transportation -- Nederal Abiation Administration

# Supplemental Type Certificate

Number SA2382NM

This certificate issued to

Knots 2U, Ltd. 703 Airport Road Burlington, WI 53105

cortifies that the change in the type design for the following product with the limitations and conditions therefor as specified hereon mosts the airworthiness requirements of Part \* of the \* Regulations. \*

Original Product - Type Carlifocate Number .\* (\*see attached FAA Approved Model

List (AML) No. SA2382NM for list of

Model: \*

Approved airplane models and applicable airworthiness regulations)

Installation of Aileron and Flap Gap Seals in accordance with the Knots 2U, Ltd. Installation Manual as listed on AML No. SA2382NM, or later FAA approved revisions.

Bimilalions and Conditions: 1. Any or all combinations of the above items are approved. 2. Compatibility of this design change with previously approved modifications must be determined by the installer. 3. A copy of this Certificate and FAA Approved Model List (AML) No. SA2382NM, amended January 22, 2002, or later FAA approved revisions, must be maintained as part of the permanent records for the modified aircraft. 4. If the holder agrees to permit another person to use this certificate to alter the product, the holder shall give the other person written evidence of that permission.

This certificate and the supporting data which is the basis for approval shall remain in effect until surrendered, suspended, revoked or a termination date is otherwise established by the Administrator of the Federal Aviation Administration.

Date of application . November 16, 1983 .

Dale of issuance: May 14, 1984

Talo reissecol : 05/30/84; 05/13/99; 01/22/02

Dalo amendod: 02/14/85; 03/15/85; 05/01/85; 05/13/99; 06/09/00: 01/22/02

By direction of the Administrate

(Signature)

Gregory J. Michalik, Senior Aerospace Engineer

Airframe & Administrative Branch Chicago Aircraft Certification Office

(Title)

#### DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION

# MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance)

Form Approved Budget Bureau No. 04-R060.1

FOR FAA USE ONLY
OFFICE IDENTIFICATION

INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form.

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Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

Installed BA-2510 per provided	Brackett Aircraft Co. Inc. In r STC#SA71GL in accordance wi	duction Air Filter Assembleth drawings and instruction
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# BRACKETT AIR FILTERS

#### INSTRUCTIONS

ASSEMBLY PART NO. BA-2510

APPROVED ON AIRCRAFT MODELS: SEE FAA APPROVED APPLICABILITY LIST

REPLACES: Cessna PN C 294510-0901

FAA APPROVAL DATA: STC-SA71GL List No. 1 FAA-PMA Supplement No. 1

Your new polyurethane air filter element has been designed to give maximum dist collecting efficiency, good air flow, lightweight, and economical replacement. The element has been treated with a special treatment called a wetted agent and is approximately 98% efficient. The special wetted agent is the secret to the efficiency of capturing dust and repelling water. The element has also been treated with a fire retardant. For the above reasons, replace the element each 200 hours of use or every 12 months or when 50% covered with foreign material. DO NOT WASH AND REUSE.

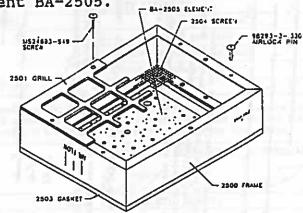
#### INSTALLATION INSTRUCTIONS

Step 1. Remove original air filter and discard.

Step 2. Install replacement filter frame PN BA-2500. NOTE: Due to the soft neoprene gasket it will require firm pressure on you screw driver to compress the gasket and lock the studs. The frame is now permanently mounted.

Step 3. Remove element BA-2505 from plastic bag, install into frame PN BA-2500, making sure it has made good contact on all sides.

Step 4. Install the grill, PN BA-2501, with the 4 ea. 8-32 screws. Step 5. For future element replacements remove the grill only and replace element BA-2505.



Step 6. NOTE: After initial installation of filter assembly fill out FAA Form 337 for return to service. On future replacement of parts this form will not be required.

SERVICING: Under normal conditions, replace filter element, PN BA-2505, after 200 hours use or 1 year intervals. Under severely dusty conditions, check daily and replace when element is 50% covered with foreign material.

Instruction Sheet Part No. BA-2506 Date: Rev. 8-29-88

Mfg. by: Brackett Aircraft Co., Inc. Kingman, AZ

T210L, Cessna T210G, Cessna R182, TR182, T182 T210J, AIRPLANE MODEL Gulfstream Aero-Space 560, 160A 560E Commander 680 BRACKETT FILTER HODEL BA-2410 CORE T210F, T210H, T210K, T210K, BRACKETT FILTER HODEL BA-2510 BRACKETT FILTER MODEL T.C. 3A21 3A13 TC 6A1 274 8 TST OTH THAN MANAGE CHARGO OTHER TO THE COMMENT OF BA-2610L & R APPLICABILITY LIST Install BA-2510 Filter Assembly in accordance with installation instructions No. BA-2506 dated June 29, 1982 or later Faa approved revision. CHANGE DESCRIPTION OF PATTE DESIGN lation instructions PN 2610-02 dated Jan. 20, 1986 or later FAA approved revision. bly in accordance with Install BA-2610 Filter Assem-7 Vabricontrada rise 7 or 12 ARCIAST CIGITAL AFICE FAA APPROVED JUN 1 \$ 1992 instal APPROVED DATE Jan. 29, 1980 July 20, Apr. 1966

> Beportment of Transportation — L'ederal Aviation Administration Stated States of States

PAGE NO.6

# Supplemental Type Certificate

Mumbor SATIGE

ificale, assued to Brackett Aircraft Company, Inc.

the for any heaviled however, much the applicable Data Sheets or Aircraft Specifications. Certification basis on the applicable Data Sheets or Aircraft Specifications. Regulations. citizani del Alexa de andre en el constitución de majera de majera de destre en esta de de de de constitues en

agend Bedie Typo Consistente Kambo

Maste Make:

As shown on Approved Model List(s)

Replace existing engine air filter frame assembly with Brackett Aircraft Specialties frame assembly in accordance with Approved Model List. NOTE: FAA- Approved Model List(s) form a part of this certificate.

this model on which other previously approved modifications are incorporated unit is determined by the installer that the interrelationship between this change it is determined by the installer proved modifications will introduce no adversard any of those other previously approved modifications will introduce no adversard upon the airworthiness of that aircraft. finitalisms and Graditions: This approval should not be extended to other aircraft

The early had a south had been a defeated at the state of the season when the had been about the season with the donal suspended on mise as lablished by the Oldministed wif to afford moles are

Federal Sheating Stateministerstion

Shapphatim: January 9, 1975

February 21, 1975

Yok amended

upervisor, Aircraft Modification Sec

Any othersion of this certificate is punishable by a fine of mot exceeding \$1,000, or impripament not exceeding 3 years.

FAA Feen \$1 16-2 [18-65]

#### DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION

#### MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance)

Form Approved Budget Bureau No. 04-R060.1

FOR FAA USE ONLY

OFFICE IDENTIFICATION

INSTRUCT for instructi	IONS: Print or ty ons and disposition	pe all entries. See	FAR 43	.9, FAR 43 App	endix B, and	I AC 43.9-1 (or	subsequent	revision t	hereof)
	MAKE	2-1-			MODEL	увы			
1. AIRCRAFT	Cessna					182		380	is a recent
	SERIAL NO. 01229			NATIONALITY AND REGISTRATION A					L ET
		on registration certific	cotel			1757GT As shown on regis	tration codii	Sector)	
2. OWNER						. Main St.			6310
Z. OWNER	VAN DUSEN I	PISTON PRODUCT	ro		I/UI E.	. rain bt.	GTTTTT	1, IN 4	10213
			3.	FOR FAA USE ON	ILY				7-2-1
	- 4	4. UN	IT IDEN	TIFICATION				5.	TYPE
UNIT	MAKE			MODEL		SERIAL	NO.	REPAIR	ALTER- ATION
AIRFRAME	••••	•••••••••••••••••••••••••••••••••••••••	As descr	ibed in item 1 ab	oove) *****		•		
POWERPLANT	LYCOMING 0-			540-J1A5DcJ3C5D L-1997			40A		ж
PROPELLER	LER							Í	
APPLIANCE	MANUFACTURER								
		,	6. Ç0	NFORMITY STATE	MENT				
Α. /	AGENCY'S NAME	AND ADDRESS		B. KII	ND OF AGE	NCY	C. CEI	RTIFICATE	NO.
Van Duse	n Piston Pro	ducts		U.S. CERTIFICA					(4)
1701 E.				FOREIGN CERTIFICATED MECHANIC				makaia	
Griffith	, IN 46319		-	X CERTIFICATED REPAIR STATION  MANUFACTURER				CRS#312	.5
attachme	nts hereto have be	nd/or alteration ma een made in accorda furnished herein is t	ance wi	he unit(s) iden	tified in iter	43 of the U.S. F	described o ederal Avia	n the rev tion Regu	erse or clations
DATE	W			SIGNATURE OF	AUTHORIZE	DINDIVIDUAL			
6-17-	86			John L. Br	30				
		7.	APPROV/	IL EOR RETURN T	O SERVICE				
Pursuant to the Adminis	the authority give	en persons specified ral Aviation Adminis	below, stration	the unit identificand is X APP	ed in item 4 ROVED	was inspected in REJECTED	n the mann	er prescri	bed by
INS	FLT. STANDARDS	MANUFACTURER		NSPECTION AUTHOR	IZATION	OTHER (Specify)			
FAA	DESIGNEE	REPAIR STATION	1	CANADIAN DEPARTMENT OF TRANSPORT INSPECTOR OF AIRCRAFT					
DATE OF APPREJECTION 6-17-86		CRS#3125	о.	John L. Br	AUTHORIZE	D INDIVIDUAL			
FAA Form	337 (7-67)			0					8320)

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record.

An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

Identify with air-8. DESCRIPTION OF WORK ACCOMPLISHED (If more space is required, attach additional sheets. craft nationality and registration mark and date work completed.)

		DESCRIPTION	P/N INSTALLED
QTY	P/N REMOVED	Stud	67556
4	68316		LW16254
1		Adapter Tube asm.	LW16255
1			LW16256
1		Gage asm.	75414
1		Bracket	LW15556
1		Plug	72306
4	70456	Mt. Leg	LW15564
4 1	LW13868	Crank & C/W Asm.	LW15526
	72801	C/W Asm.	76788
2	72797	C/W Pin	LW15558
2	72965	C/W Pin	LW13276
2	72565	Support	
1	72377	Elbow	72996
2	71.651	Fitting	12370
1	LW14178	Plug	
1	LW14178	Reducer	LW1.5572
1		Starter	
1	LW15571	Sump asm.	LW14927
1	72055	Intake Pipe	
6	70485	Carb	LW15663
1	LW10540	Intake Pipe	LW14931
1		Intake Pipe	LW14932
1		Intake Pipe	LW14933
1	Section 1	Intake Pipe	LW14934
1		Intake Pipe	LW14935
1		Intake Pipe	LW14936
1	<del></del>	Tirema 1	
	_EN	m-	

-END-

John L. Brza

#### DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION

#### MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance)

Form Approved Budget Bureau No. 04-R060.1 FOR FAA USE ONLY

OFFICE IDENTIFICATION

for instructions and disposition of this form	See FAR 43.9, FAR 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof)
INSTRUCTIONS: Print or type all entries.	See FAR 43.9, FAR 43 Appendix B and AC 42 B

1. AIRCRAFT	MAKE CESSNA	MODEL 182 RG
	102101229	NATIONALITY AND REGISTRATION MARK N757GT
2. OWNER	MILTON T AVIATION	ADDRESS (As shown on registration certificate) MILITON AIRPORT MILITON, FLA 32570
	3. FOR FAA USE ON	LY

	4. U	NIT IDENTIFICATION			TVDF
UNIT	MAKE	MODEL		٥.	TYPE
		MODEL	SERIAL NO.	REPAIR	ALTER-
AIRFRAME	***************************************	(As described in item 1 above)	***************************************		xx
POWERPLANT					
ROPELLER					
	ТУРЕ				
APPLIANCE	MANUFACTURER				

6	CONFORM	NITY STATEMENT	
A. AGENCY'S NAME AND ADDRESS	I Etc.	B. KIND OF AGENCY	C. CERTIFICATE NO.
SOUTHERN AVIONICS & COMMUNICATIONS	U.S	S. CERTIFICATED MECHANIC	
.O. BOX 8922 BATES FIELD	FOI	REIGN CERTIFICATED MECHANIC	RS 702-101
MOBILE, ALA 36608		RTIFICATED REPAIR STATION	RADIO I,II,III
		NUFACTURER	LIM. INSTRUMENT
D I would be	100		CDEC CITYLE

D. I certify that the repair and/or alteration made to the unit(s) identified in item 4 above and described on the reverse or and that the information furnished herein is true and correct to the best of my knowledge.

_	-					and correct to tite nest of Wild i	Knowledge.
DATE				10 10 10 Sim		SIGNATURE OF AUTHORIZE	
		10-18-84				Doe Hen	lease
D				7. A	PPRO	VAL FOR RETURN TO SERVICE	
the	Adn	ninistrator of the I	give: eder	n persons specified bal Aviation Administr	elow ratio	n and is X APPROVED	was inspected in the manner prescribed by REJECTED
BY		FAA FLT. STANDARDS INSPECTOR		MANUFACTURER		INSPECTION AUTHORIZATION	OTHER (Specify)
	1	FAA DESIGNEE	XX	REPAIR STATION		CANADIAN DEPARTMENT OF TRANSPORT INSPECTOR OF AIRCRAFT	
DATE	PAIE UP APPROVAL OP CERTIFICATION				SIGNATURE OF AUTHORIZE	INDIVIDIAL	

DESIGNATION NO. RS 702-101

SIGNATURE OF AUTHORIZED INDIVIDUAL

FAA Form 337 (7-67)

10-18-84

REJECTION

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

	4
STATE OF THE PROPERTY OF THE P	
THE REPORT OF THE PROPERTY OF	
	Togbook entry made.
weight & Bal./Equipment list.	Prepared supplement to
	specifications.
Lited operation in accordance with Mfgr's	Operational check veri
ME in accordance with manufacturer's installation	manuals/instructions.
with the death along the about the territory of the WK	Installed King KW 64 I
	78-81-01 IDL9/N
(mainiduos viau alar alar	
e space is required, attach additional sheets. Identify with air-	craft nationality and registration mar
1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	8. DESCRIPTION OF WORK ACCOMPLICATED VIF TOOL
an previous afferations to assure continued conformity with the	applicable airworthiness requirements.

☐ ADDITIONAL SHEETS ARE ATTACHED

# P.O. BOX 8922-BATES FIELD MOBILE, ALA 36608 (205)633-4439

#### SUPPLEMENTAL

A/C EMPTY		EMPTY C.G	The state of the s		August
	ENT 62334.05	USEFUL LD.		222.02	
ABOVE DAT	A TAKEN FROM WT & BAL	BY MILION T AVIA	ATION DATED I	.272-83	40.00
M	DESCRIPTION		WEIGHT	ARM	MOMENT
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		2000			
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N	EW EMPTY WT. 1828.7	NEW EMPT	Y MOMENT 6	2372.45	
	EW EMPTY CG 34.107	NEW USEF	UL LOAD	1271.30	
c	IGNED JOE Hem de	ThA	TE 10-18-	84	

#### DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION

#### MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance)

Form Approved
Budget Bureau No. 04-R060.1

FOR FAA USE ONLY

(8320)

OFFICE IDENTIFICATION

INSTRUCT for instructi	IONS: Print or typons and disposition	e allventries. See F of this form.	AR 4	3.9,	FAR 43 Appendix B, a	nd AC 43.9-1	(or subsequent	revision t	hereof)	
	MAKE	AIRCRAFT COM	DANK	,	MODEL	R182				
1. AIRCRAFT	SERIAL NO.	ALICIMET CO	T. V-IIA]		NATIONA		GISTRATION M	ARK		
		229		N757GT U.S.A.						
	NAME (As shown o	n registration certific	ate)		ADDRESS	(As shown on	registration certi	ficate)		
2. OWNER	PARKER EN	ERGY RESOURCE	S		RT	9 BOX 278	C, MILTON,	FIA 3	32570	
				FO	R FAA USE ONLY	- 1041 270	·		,2370	
	4-1-1	4. UNI	T IDE	NTIF	CATION			5.	TYPE	
UNIT	MAKE				MODEL	SI	RIAL NO.	REPAIR	ALTER- ATION	
AIRFRAME ************************************			cribe	d in item 1 above)	**********	•••••		х		
POWERPLANT										
PROPELLER										
APPLIANCE	MANUFACTURER									
			6. (	ONF	DRMITY STATEMENT					
Α,	AGENCY'S NAME	AND ADDRESS		v	B. KIND OF A		C. CE	CERTIFICATE NO.		
TED L.	RHODES		ŀ	FOREIGN CERTIFICATED MECHANIC				264256282		
The second secon	RUDITION AVE.			CERTIFICATED REPAIR STATION 2						
MILTON	, FIA. 3257	U			MANUFACTURER					
attachme	nts hereto have be	en made in accorda	nce w	ith (	unit(s) identified in it the requirements of Par prrect to the best of my	rt 43 of the L	and described o J.S. Federal Avia	n the rev	rerse of ulations	
DATE				SIG	NATURE OF AUTHORIZ	ZED INDIVIDU	Al.			
11/	11/3/83				Ted L.	Khod	ex			
	4				FOR RETURN TO SERVICE					
Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is APPROVED REJECTED										
	FLT. STANDARDS PECTOR	MANUFACTURER	x		ECTION AUTHORIZATION	OTHER (Speci	(v)			
FAA	DESIGNEE	REPAIR STATION		OF OF	ADIAN DEPARTMENT TRANSPORT INSPECTOR AIRCRAFT					
DATE OF APPREJECTION	11/3/83	CERTIFICATE OR DESIGNATION NO 264256282		SIG	Ted L. B	hode				
FAA Form	AA Form 337 (7-67) Aug 2 (8320)									

☆ U.S. Government Printing Office 1977—772-646/141

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

8. DESCRIPTION OF WORK ACCOMPLISHED (If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

REMOVED ROYALITE RADIO BLANK-OFF PANEL FROM INSTRUMENT PANEL AND CUT 2"x3" HOLE IN PANEL AND INSTALLED CARBON MONOXIDE DETECTOR/ALARM, MODEL 15-200, S/N 012676, IN SERIES ON POSITIVE WIRE WITH & AMP INLINE FUSE AND CROUNDED TO AIRCRAFT STRUCTURE IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS. RE-INSTALLED BLANK-OFF PANEL ON INSTRUMENT PANEL WITH DETECTOR INSTALLED. DETECTOR SYSTEM

MANUFACTURED BY PARAGON SAFETY INSTRUMENTS, LTD.. INSTALLED ARM/DISARM SWITCH WAS TESTED AND ALL TESTS WERE SATISFACTORY. ALL WORK DONE IN ACCORDANCE WITH AC 43.13-1A, CHAPTER 11, SECTION 2, SUB-SECTION 429 AND 43.13-2A, CHAPTERS 1 AND 2. WEIGHT CHANGE AND CURRENT DRAW NEGLIGIBLE. -----END-

#### DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION

#### MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance)

Dh		
F	OR	Trans.
OFFICE	IDI	ENTIFICATION.

INSTRU	CTIONS: Print or	type	all entries. See FAI of this form.	R 43.9,	FAR 43 Appe	ndix B, and A	C 43.9-1 (or s	ubsequent r	evision th	ereof)	
tut mstru	MAKE					MODEL					
1. AIRCRAFT	C	ess	sna			R182					
	SERIAL NO.	1 81	201220			NATIONALITY AND REGISTRATION MARK					
	The second secon	R18201229  NAME (As shown on registration certificate)									
2. OWNER	-		nell + Son	5	ADDRESS (As shown on registration certificate) 1405 S.R.54 West Odessa Fla 33556  FOR FAA USE ONLY						
				3. 10	N TAN USE ON	6.1					
				1000171	16171011					**************************************	
			4. UNIT	IDENTIF	ICATION				5.	TYPE	
UNIT		MAKE			MODEL			. ITU. DESAID		ALTER- ATION	
AIRFRAME	•••	(As described in item 1 above)								х	
POWERPLA	ANT										
PROPELLER	2							W W			
APPLIANC	TYPE MANUFACTURER	,			E						
		4		6. CON	FORMITY STATE	MENT			dia.	-	
-	A. AGENCY'S NA	ME	The second secon			ND OF AGEN	ICY	C. CE	RTIFICATE	NO.	
					U.S. CERTIFICATED MECHANIC						
Nova Flite Center 1624 Bellevue Ave.					FOREIGN CERTIFICATED MECHANIC						
Daytona Beach Fla. 32014					X CERTIFICATED REPAIR STATION			Limited-radio			
Day tona Beach Fla. Jeoly					MANUFACTUR	PUFACTURER			708-33		
attac	kments hereto hav	e her	d/or alteration made en made in accordance enished herein is tru	ce with	the requirem	ents of Part 4	of the U.S. r	described of Sederal Avia	n the rev ition Regi	erse or ulations	
DATE	11-5	<b>-7</b> 9			Dale	AUTHORIZED	INDIVIDUAL.				
	Wales and the			The same of the sa		TO SERVICE					
Pursuan the Adn	t to the authority ninistrator of the F	giver edera	persons specified be I Aviation Administra	low, tl	ne unit identifind is API	ied in item 4 PROVED   1	was inspected i	n the mann	er prescri	bed by	
	FAA FLT. STANDARDS		MANUFACTURER		SPECTION AUTHO		OTHER (Specify)				
BY	FAA DESIGNEE	X	REPAIR STATION	O	MADIAN DEPART F TRANSPORT IN			1100			
DATE OF	APPROVAL OR		CERTIFICATE OR	_		AUTHORIZED	INDIVIDUAL		14-11-11		
REJECTIO	N		DESIGNATION NO.		Da	1E2	tt.		20 1000		
-	11-5-79	-	700-77	-	1900					(8320)	

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

8. DESCRIPTION OF WORK ACCOMPLISHED (If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

N7 57GT 11-5-79

Installed the following equipment: King KMA-24 audio panel, two KX-170B transceivers, KR-86 ADF receiver, KT-76A transponder, KI-208 navigation indicator, KI-209 navigation/glideslope indicator, KN-75 glideslope receiver, two KA-39 power converters, Narco AR-500 altitude encoder.

These units are installed in factory panel holes and on factory radio racks.

This installation was accomplished in accordance with A.C.43.13-1, chapter 11, section 2, paragraphs 424,428,429,430; section 3, paragraphs 443,445,447,449,450; chapter 16, section 1, paragraph 868 and A.C. 43.13-2, chapter 2, paragraphs 21,22,23; chapter 3, paragraph 33,36,37,38.

The calculated electrical load remains within 80% of the system capacity.

The aircraft equipment list and weight and balance data have been revised to include these units.

END

MAKE Cess	maMODEL_R182	SN <u>R182012</u>	29 N 75	TGT	
REGISTERED	OWNER Ed Schernell and Lord	wo#			
ADDRESS 14	05 S.R. 54 West Odesla Number Street City	Fla. Sta	te 3:	33556 e Zip	
		TACH OR HOU			
•	WEIGHT AND BALANCE D				
MFG.	KMA-24 andis some & tantenno	WT.	X ARM	MOMENT	
114.09	KX-170B transceives + ontenno	7.0	12.2	21.76	
	KX-1708 tans seines + notenna	7.0	1214	84.8	
	KR-86 ADFSustem	6.2	12.4	86.8	
	KT-76 A transponder	3.4	12 4	42.16	
	KI-209 Nour indicator	1,2	128	15.36	
	KI-208 Now indicator	1.0	12 0	12.8	
	INA-39 restance consecution	1,5	134.0	20110	
	KA-39 voltage convertes	1,5	13410	201.0	
	KA-39 voltage convertes. KN-75 glideslope receives	116	134,0	214 4	
Nanco	AR-500 altitude encoder	1,5	13.0	19,5	
	EIGHT 1823.0 lbs. NEW USEFUI				
NEW AIRCRAFT	NOVA FLITE CENTER AVIONICS SHOP FAA # 708-33 DAYTONA BEACH, FLORIDA INSTALLER		1 in sl	bs.	
			1-		

REVISED 12/2/83



#### MILTON T AVIATION

Phone (904) 623-4151 994-6455 Milton Airport, Milton Florida 32570

12/2/83

CESSNA R182 N757GT

SERIAL NUMBER: 01229

REVISED WEIGHT AND BALANCE DATA

ARM MOMENT WEIGHT 34.14 IN.

PREVIOUS EMPTY WEIGHT: 1823.0 LBS. 62230.1 IN./LBS.

THE FOLLOWING EQUIPMENT WAS ADDED:

(1) MARTECH, INC. 1301/1211 HALON FIRE EXTINGUISHER

38.5 IN. 103.95 IN./LBS. 2.7 LBS. WEIGHT:

(THIS INCLUDES MOUNTING BRACKET AND HARDWARE)

34.14 IN. 62334.05 IN./LBS. NEW TOTAL EMPTY WEIGHT: 1825.7 LBS.

NEW USEFUL LOAD: 1274.3 LBS. NEW EMPTY WEIGHT: 1825.7 LBS.

NEW MOMENT: 62334.05 IN./LBS. NEW AIRCRAFT C.G.: 34.14 IN.

TED L. RHODES PREPARED BY:

A&P 264256282

172 ERUDITION AVE.

MILTON, FLA. 32570

Ted L. Rlodes A = 7 264256282 TED L. RHODES